Medical

CONTENTS OF VOLUME 71

JANUARY, 1954. NUMBER 1

	Page
Some Current Trends in Therapeutic Radiology. *Howard B. Hunt, M.D.*	1
Surgical and Radiological Results in the Treatment of Esophageal Carcinoma. *Franz Buschke, M.D.*	9
An Evaluation of the Clinical Use of a Strontium 90 Beta-Ray Applicator with a Review of the Underlying Principles. *H. L. Friedell, C. I. Thomas,* and *J. S. Krohmer*	25
Reticulum Cell Sarcoma Primary in the Skull; Report of Three Cases. *Vance M. Strange, M.D.,* and *Alfred A. de Lorimier, M.D.*	40
Anomalies of the Bony Orbit. *William B. Seaman, M.D.,* and *Leonard T. Furlow, M.D.*	51
Nasopharyngeal Fibrosarcoma in a Child Extending into the Cerebellopontine Angle. *Bernard S. Epstein, M.D.*	60
Meckel's Diverticulum. *Robert D. Sloan, M.D., Edward S. Stafford, M.D., Martin L. Singewald, M.D.,* and *Charles M. Sinn, M.D.*	64
The Anatomy of the Pyloric Canal and the Etiology of Infantile Pyloric Stenosis. *Johan Torgensen, M.D.*	76
Volvulus of the Splenic Flexure of the Colon. *Richard E. Buenger, M.D.*	81
Calcification of the Portal and Splenic Veins. *George J. Magovern, M.D.,* and *Gerald E. Muehsam, M.D.*	84
Case of Bullet in Heart with Recovery; A Thirty Year Follow-up. *James E. Vickers, M.D.*	89
Regeneration of the Resected Descending Articular Facet of the Fourth Lumbar Vertebra. *Michael Burman, M.D.,* and *Samuel E. Sinberg, M.D.*	91
Endometrial Biopsy as a Standard Diagnostic Technique; A Review of 445 Cases. *John A. Wall, M.D., Gilbert H. Fletcher, M.D.,* and *Eleanor J. MacDonald, A.B.*	95
Fast Cameras for All-Purpose Photofluorography. *Paul C. Hodges, M.D.*	102
An Automatic Regulator for Providing Constant Brightness of the Fluoroscopic Screen. *Russell H. Morgan* and *Ralph E. Sturm*	110
A Simplified Method of Correcting Roentgenographic Measurements of the Maternal Pelvis and the Fetal Skull. *Gerhart S. Schwarz, M.D.*	115
A General Formula for Pelvicephalometry. *Natal C. Carabello, M.D.*	121
Roentgen Paralysis in the Mouse. *V. V. Brunst, Sc.D.*	131
Recommendations of the International Commission on Radiological Units; Revised at the Seventh International Congress of Radiology, Copenhagen, Denmark, July, 1953	139
Editorial.	
The Thirty-sixth Annual Meeting of the American Radium Society. *Edith H. Quimby*	144
Society Proceedings, Correspondence and News Items	146
Book Reviews	153
Books Received	157
Abstracts of Radiological Literature	160

FEBRUARY, 1954. NUMBER 2

Pubic and Ischial Necrosis Following Cystostomy and Prostatectomy (Osteitis Pubis). *Edwin L. Lame, M.D.,* and *Hon Chong Chang, M.D.*	193
Nephrotomography; A Preliminary Report. *John A. Evans, M.D., William Dubilier, Jr., M.D.,* and *James C. Montieth, M.D.*	213
Venography; A New Technique. *George J. D'Angelo, M.D., Robert J. Reeves, M.D., Robert L. Pinck, M.D.,* and *J. Edward King, A.B.*	224
Artificial Nephrography by Combined Retrograde and Intravenous Urography; Preliminary Report. *Francis A. Herzan, M.D.*	228
The Use of Hydrogen Peroxide for the Elimination of Gas from the Intestine during Roentgenography of the Abdominal Viscera. *Antonio Govoni, James F. Brailsford,* and *Eric H. Mucklow*	235
Carbonated Soft Drinks in Roentgen Diagnosis of Foreign Bodies in the Stomach. *Wendell E. Roberts, Sc.d. (Hon.)*	239

Treatment of Carcinoma of the Tongue. *Alberto Rahausen, M.D.*, and *Carlos Sayago, M.D.* 243
Effects of Irradiation on Post-tonsillectomy Pain. *John W. Hope, M.D., George W. Taylor, M.D., Eugene P. Pendergrass, M.D.*, and *Harry P. Schenck, M.D.* 251
An Evaluation of the Efficiency of Various Intrauterine Radium Techniques in the Treatment of Cancer of the Corpus Uteri; Factors Influencing the Establishment of a Treatment Policy. *J. H. Freed, M.D.*, and *E. P. Pendergrass, M.D.* 253
A Flexible Rubber Applicator with a Positive Spread for Radium Treatment of Cancer of the Uterine Cervix. *Paul A. Bishop, M.D.* 267
Neutron Capture Therapy with Boron in the Treatment of Glioblastoma Multiforme. *Lee E. Farr, M.D., William H. Sweet, M.D., James S. Robertson, M.D., Charles G. Foster, M.D., Herbert B. Locksley, M.D., D. Lawrence Sutherland, M.D., Mortimer L. Mendelsohn, M.D.*, and *E. E. Stickley, Ph.D.* 279
Blood Retention of Intravenously Injected Colloidal Prodigiosin in Normal and Roentgen Irradiated Rabbits; An Index of Phagocytic Function in the Reticuloendothelial System. *George V. Taplin, M.D., Camille Finnegan, Philip Noyes*, and *Gerald Sprague* 294
Comparative Effects of Cobalt 60 and Radium When Utilized in Identical Doses on the Skin of Rabbits. *Isadore Meschan, M.D.*, and *Anderson Nettleship, M.D.* 306
Dosage Tables for Cobalt 60 for Use with Interstitial, Plaque, and Intracavitary Applications. *Isadore Meschan, M.D., George Regnier, M.D., James W. Nelson, M.D.*, and *Arland W. Lafferty, M.D.* 320
The Electron Spectra Produced by a Cobalt 60 Source in Water. *Evans Hayward* 333
Editorials.
More Continuous Care for the Cancer Patient. *Wendell G. Scott, M.D.* 338
John Jay Moore, 1888–1953. *A. A. de Lorimier, M.D.* 340
Society Proceedings, Correspondence and News Items 342
Abstracts of Radiological Literature 348

March, 1954. Number 3

The Development of the Colon Examination. *Clyde A. Stevenson, M.D.* 385
Indications for the Double Contrast Colon Examination. *Clyde A. Stevenson, M.D.*, and *McClure Wilson, M.D.* 398
The Roentgen Findings in Strangulating Obstructions of the Small Intestine. *Harry Z. Mellins, M.D.*, and *Leo G. Rigler, M.D.* 404
Intestinal Ascariasis in Man. *Major D. W. Minteer, M.D., 1st Lieutenant J. D. Hayes, M.C.*, and *Lieutenant Colonel K. A. Youngstrom, M.C.* 416
Metabolic Craniopathy; Report of Two Cases Associated with Osteopoikilosis. *Howard B. Appelman, M.D.*, and *Robert C. Moehlig, M.D.* 420
Basilar Artery Aneurysm; Report of a Case Diagnosed Roentgenologically. *W. Eugene Stern, M.D.* 428
A New Method for Correcting Distortion in Cranial Roentgenograms; with Special Reference to a New Human Stereotactic Instrument. *Vernon H. Mark, M.D., Paul M. McPherson*, and *William H. Sweet, M.D.* 435
Ewing's Tumor of a Rib with Pulmonary Metastasis; Report of a Case with Ten Year Survival. *Arthur J. Winham, M.D.* 445
Studies on Spondylolisthesis. *Lee A. Hadley, M.D.* 448
Fractures of the Ankle. III. Genetic Roentgenologic Diagnosis of Fractures of the Ankle. *N. Lauge-Hansen, M.D.* 456
Letterer-Siwe's Disease; Problems in Diagnosis and Treatment. *Eugene L. Saenger, M.D.*, and *Ralph J. Johansmann, M.D.* 472
Milkman's Disease (Osteomalacia); Report of a Case Which Shows that Milkman's Disease May be "Simple" Vitamin D. Deficiency in Adults. *Norman J. Winston, M.D.*, and *Eugene P. Pendergrass, M.D.* 484
A Method of Roentgenography of the Male Genital Tract. *Arthur S. Tucker, M.D., Hanabusa Yanagihara, M.D.*, and *Arthur W. Pryde, M.D.* 490
The Treatment of Cancer of the Cervix Uteri; A Comparison of Radiation Therapy and Radical Surgery. *Gray H. Twombly, M.D.*, and *Howard C. Taylor, Jr., M.D.* 501
The Synergistic Effects of Roentgen Radiation and Cortisone upon Susceptibility of Mice to Pathogenic Microorganisms. *Jack Friedman, M.D., Alvar A. Werder, Ph.D., Frank J. Roth, M.S., Asa B. Graham, M.S., Ovidio J. Mira, B.A.*, and *Jerome T. Syverton, M.D.* 509

Cassette Holder for Cholecystography in Right Lateral Decubitus Position. *Andrew Turnbull, M.D.* ... 520
An Improvement for Roentgen-Ray Film Hangers. *Wallace S. Tirman, M.D.* ... 522
Editorial.
The Roentgenologic Significance of Funnel Chest. *Harold Fulton, M.D.* ... 524
Society Proceedings, Correspondence and News Items ... 526
Book Reviews ... 532
Abstracts of Radiological Literature ... 537

April, 1954. Number 4

Lesions in and about the Second Portion of the Duodenum. *Ira H. Lockwood, M.D., Arthur B. Smith, M.D.,* and *Lester D. Shook, M.D.* ... 573
Roentgen Findings in the "Collagen" Diseases. *L. H. Garland, M.D.,* and *M. A. Sisson, M.D.* ... 581
A Correlation of Roentgen and Surgical Findings in Two Hundred Cases of Rheumatic Mitral Valvular Disease; Evaluation of Cardiac Chamber Size, Valvular Calcification and Pulmonary Vessels. *J. Stauffer Lehman, M.D.,* and *Joseph L. Curry, M.D.* ... 599
Infrapulmonary Pleural Effusions. *Robert L. Friedman, M.D.* ... 613
Reliability of Brain Tumor Localization by Roentgen Methods. *Fred Jenner Hodges, M.D., John F. Holt, M.D., Robert C. Bassett, M.D.,* and *Lloyd J. Lemmen, M.D.* ... 624
An Unusual Form of Fibrous Dysplasia of Bone; Report of Three Cases. *David G. Pugh, M.D.* ... 632
Osteitis Condensans Ilii. *Lieutenant Gerald Segal, Medical Corps, U. S. Army,* and *Colonel Douglas S. Kellogg, Medical Corps., U. S. Army* ... 643
Radiation Therapy. *Frederick W. O'Brien, M.D.* ... 650
Experiences in the Radiation Therapy of Medulloblastoma of the Cerebellum. *Isadore Lampe, M.D.,* and *Robert S. MacIntyre, M.D.* ... 659
Radiation Treatment of Carcinoma of the Corpus Uteri. *William E. Costolow, M.D., James F. Nolan, M.D., G. Charles Budenz, M.D.,* and *Lucille Du Sault, A.B.* ... 669
Integral Roentgen Therapy for Carcinoma of the Cervix Uteri. *J. A. del Regato, M.D.* ... 676
Investigation of the Effective Absorption of Radium and Cobalt 60 Gamma Radiation in Water and Its Clinical Significance. *Peter Wootton, B.Sc., Robert J. Shalek, Ph.D.,* and *Gilbert H. Fletcher, M.D.* ... 683
State Control of Protection Against Ionizing Radiation. *Lauriston S. Taylor* ... 691
Editorial.
Radioactive Gold (Au^{198}) in the Treatment of Cancer. *Kenneth L. Krabbenhoft, M.D.* ... 704
Society Proceedings, Correspondence and News Items ... 707
Abstracts of Radiological Literature ... 715

May, 1954. Number 5

Intralobar Bronchopulmonary Sequestration. *André J. Bruwer, M.B., Ch.B., O. Theron Clagett, M. D.,* and *John R. McDonald, M.D.* ... 751
Intracerebral Arteriovenous Malformations: Their Diagnosis and Angiographic Demonstration. *Wendell G. Scott, M.D., Wayne A. Simril, M.D.,* and *William B. Seaman, M.D.* ... 762
Roentgen Recognition of Parathyroid Adenoma. *Stanley M. Wyman, M.D.,* and *Laurence L. Robbins, M.D.* ... 777
The Pulmonary Aspects of Polyarteritis (Periarteritis) Nodosa. *Howard P. Doub, M.D., Ben E. Goodrich, M.D.,* and *James R. Gish, M.D.* ... 785
Multiple Primary Carcinomas of the Large Intestine. *Roderick L. Tondreau, M.D.* ... 794
Anterior Sacral Meningocele. *Ted F. Leigh, M.D.,* and *James V. Rogers, Jr., M.D.* ... 808
Roentgen Therapy for Cancer of the Larynx and Laryngopharynx. Twenty Years' Experience. *William Harris, M.D., Sidney M. Silverstone, M.D.,* and *Rudolph Kramer, M.D.* 813
Roentgen Therapy of Hepatic Metastases. *Ralph Phillips, M.D., David A. Karnofsky, M.D., Leonard D. Hamilton, M.D.,* and *James J. Nickson, M.D.* ... 826
Physical Measurements of Radiation through a Grid. *Theodore E. Sopp, B.Sc., F.A.C.R. (Assoc.),* and *Leonard Stanton, A.B.* ... 835
The Diagnostic Value of the Immediate Peripheral Leukocyte Response of the Rat to Whole Body Roentgen Irradiation. *J. Gershon-Cohen, M.D., D.Sc. (Med),* and *M. B. Hermel, M.D.* ... 846

A Review of the Theory, Calibration Techniques, and Applications of an Ionization Current Comparator, with an Investigation of Its Capabilities as a Precision Instrument. *L. A. W. Kemp, B.Sc., Ph.D., F. Inst. P.* ... 853
The Principles of Dilatancy Applied to Techniques of Radiotherapy. *Warren J. Mead, Ph.D.*, and *Vincent P. Collins, M.D.* ... 864
A Rapid Method of Positioning for Rotation Therapy. *J. Dresner, M.S.* ... 867
Intrathoracic Pressure and Position of the Patient in the Roentgen Examination of the Mediastinum. *Cesare Gianturco, M.D.* ... 870
New Explosion-Proof and Shock-Proof Mobile Roentgenographic Equipment for the Operating Room. *Barton R. Young, M.D.*, and *Robert L. Scanlan, M.D.* ... 873
Use of Polaroid Land Camera for Copying Roentgenograms. *Stephen N. Tager, M.D.* ... 878
Prevention of and Locating Misfiled Film Envelopes. *Ernest S. Kerekes, M.D.* ... 881
Editorial.
The Annual Meeting of the American Radium Society. *Harry Hauser, M.D.* ... 883
Society Proceedings, Correspondence and News Items ... 885
Abstracts of Radiological Literature ... 890

June, 1954. Number 6

Normal Bone, Diseased Bone, Dead Bone. Caldwell Lecture, 1953. *Paul C. Hodges, M.D.* ... 925
Punctate Epiphyseal Dysplasia (Chondrodystrophia Calcificans Congenita); Report of Case with Nine Year Period of Observation. *Lester W. Paul, M.D.* ... 941
Roentgenographic Examination in Meningioma of the Tuberculum Sellae or Olfactory Groove. *Robert D. Weyand, M.D.*, and *John D. Camp, M.D.* ... 947
Some Factors Which Affect the Value of Carotid Angiography in the Diagnosis of Brain Tumor. *Ernest H. Wood, M.D.* ... 952
Rupture of an Aneurysm of the Internal Carotid Artery During Cerebral Angiography; Case Report. *E. L. Jenkinson, M.D., Oscar Sugar, M.D.*, and *Hyman Love, M.D.* ... 958
The Study of Mitral Regurgitation by Roentgen Kymography; With Observations on the Movement of Cardiac Calcifications. *Victor A. McKusick, M.D.* ... 961
Fissures in Biliary Calculi; Further Observations. *C. L. Hinkel, M.D., Med. Sc.D.* ... 979
Localized Organizing Pneumonia: Its Resemblance to Carcinoma; A Review of Its Clinical Roentgenographic and Pathologic Features. *Lauren V. Ackerman, M.D., Gladden V. Elliott, M.D.*, and *Mario Alanis, M.D.* ... 988
Distant Metastasis from Carcinoma of the Oral Cavity. *S. Gordon Castigliano, M.D., F.A.C.S.*, and *C. Jules Rominger, M.D.* ... 997
Hodgkin's Disease. *Frederick W. O'Brien, M.D.*, and *Frederick W. O'Brien, Jr., M.D.* ... 1007
The Effect of Fluorine-Free Food on Dental and Periodontal Structures as Revealed by Roentgen Studies. *J. F. McClendon, Ph.D.*, and *J. Gershon-Cohen, M.D.* ... 1017
Physical Factors in the Use of Cobalt 60 in Interstitial and Intracavitary Therapy. *Gilbert H. Fletcher, M.D., Peter Wootton, B.Sc., William H. Storey, B.A.*, and *Robert J. Shalek, Ph.D.* ... 1021
Percutaneous Absorption of Tritium Oxide. *Chester W. DeLong, Roy C. Thompson*, and *Harry A. Kornberg* ... 1038
Extrapolation Ionization Chamber for Measurement of Dosage in Intracavitary Irradiation. *Armand Littman, M.D., Ph.D., Benum W. Fox, M.D., M.S., J. W. Beattie, B.S.*, and *John S. McLaughlin, Ph.D.* ... 1046
Film Dosimetry of Electrons in the Energy Range 0.5 to 1.4 Mev. *Jerome Fleeman*, and *F. S. Frantz, Jr.* ... 1049
A Portable Roentgen-Ray Stereoscopic Unit. *Captain Clifford F. Storey, MC, USN, Lieutenant Joseph V. Cusmano, MC, USNR*, and *Donald J. Love, HM3, USN* ... 1056
A Method of Recording Time on a Roentgenogram. *W. James Gardner, M.D.*, and *Robert Takiguchi* ... 1060
Editorial.
Late Manifestations of Injuries Produced by Ionizing Radiations. *T. Leucutia, M.D.* ... 1062
Society Proceedings, Correspondence and News Items ... 1065
Abstracts of Radiological Literature ... 1070
Subject Index to Volume 71 ... 1082
Author Index to Volume 71 ... 1102